

Allergens have been identified: what now?

The best treatment is complete avoidance of the allergens. In case of flea or food allergies, avoidance of the causative allergens is generally easy, but if the dog is suffering from pollen or house dust mite allergy, it is nearly impossible to selectively avoid those allergens. In the case of short lasting seasonal allergies (3 - 4 months), certain medications or precautions can be taken to alleviate the severity of clinical signs. Because of adverse side effects, treatments should only be given for limited periods of time in the case of perennial allergies. An Allergenspecific immunotherapy (ASIT, hyposensitization) should be considered for long-term treatment. This kind of therapy is only available for environmental allergens (house dust mites, moulds, insects, pollen), but not for flea saliva or food ingredients. What is Allergenspecific immunotherapy (ASIT)? An Allergen-specific immunotherapy is based on the results of an allergy test of your dog. Individualized solutions containing the relevant allergens, to which your dog has shown positive reactions in previously

(under the skin) with increasing concentrations and intervals over a longer period of time. In most cases, this treatment increases the tolerance of your dog's immune system to the respective allergens. Very often improvements can be seen as early as a few weeks after beginning the treatment. However, sometimes it can take longer (several months) before improvement is noticeable. In about 70% of cases this type of treatment is effective in at least reducing the severity of allergic signs or completely abolishing them. In rare cases, side effects may be observed. such as a short lived worsening of clinical signs. In most cases, your veterinarian will adjust the dosage until the side effects disappear. Please consider that an allergy is a disease that cannot be cured and will persist lifelong. Therefore, any treatment - including ASIT - must also be administered lifelong. It is also possible for allergies to be passed on to offspring, so please take that into consideration should you intend to breed with an affected dog. The only way to deal with an allergy and to improve quality of life of your dog is to identify the causative allergens, try to avoid them as far as possible and use the Allergenspecific immunotherapy (ASIT, see above). In cooperation with your veterinarian, you can arrive at a diagnosis and develop a strategy that will help to achieve a higher quality of life for you and your dog.

performed allergy testing, are

prepared and administered to your dog subcutaneously

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→ Allergy

= Hypersensitivity reaction

Allergies in dogs can range from harmless to severe clinical disease which can be seriously detrimental to the animal's quality of life.

Most important clinical signs

Mild to severe pruritus, skin lesions and intestinal problems.

Onset of clinical signs

Depending on the type of allergen: onset while still a puppy or in senior years, seasonal or perennial, localized on the face, paws, between the digits, or on the entire body.

Common causes

Fleas, house dust mites, pollen, various food ingredients.

→ Tests

Exclusion of other diseases, detailed history, clinical signs, skin or serological allergy test, and elimination diet.

Food allergy

Look for diarrhea, vomiting or frequent defaecation.

Basis of a diagnosis

Precise analysis and laboratory testing in a good, renowned laboratory.

Lab profile

Name: LABOKLIN GmbH & Co. KG

Office: Bad Kissingen

Founded: 1989

Type: Laboratory for clinical diagnostics

Qualifications: One of the leading laboratories in Europe

Operating in: Europe, Asia, Arabian Peninsula

Team: Over one hundred specialists and

veterinarians

Specialty: Research projects at the federal level

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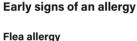


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Description of allergies

Allergies - also called hypersensitivity - can affect dogs in many different ways. Generally, an allergy is an overreaction of the immune system which can result in various clinical signs. The most important sign in dogs is pruritus with or without miscellaneous skin lesions. The course of allergies can vary greatly: some dogs only suffer from a harmless type of allergic disease with mild pathology while others suffer from severe clinical disease which can be seriously detrimental to their quality of life.



Flea allergy

Time point/onset and location of signs offer valuable clues to the identification of an allergy. Onset of illness during the warm season are suggestive of an allergy against fleas.

Atopic dermatitis

Allergies against house dust mites cause symptoms throughout the year which can become more severe when the animal spends more time inside or in a bedroom or room with a carpet inside the house. Signs associated with pollen allergies increase during the spring, summer and early fall time.





Food allergy

Allergies against food ingredients can be directly related to food intake. However, this is not always the case and sometimes allergic signs associated with food can occur even days after ingestion of the allergen. Just swapping one food source or company will not result in a decrease in clinical signs.

Overall, it takes a lot of "detective work" to identify the causative agent(s) of an allergy and a lot of patience to treat the clinical signs.

Clinical signs

In atopic dermatitis (the initial) clinical signs appear at the age of 6 months to 3 years. An exception are food hypersensitivities, which may become apparent also in puppies or very old dogs. Dogs of all breeds can be affected. However, there seems to be an increased susceptibility to the development of allergies in dogs of certain breeds such as WHWT, Boxer, Retriever, Pugs, French Bulldogs, and German Shepherd. The first obvious sign will be an increased itchiness of the skin. The owners may notice that the dog grooms excessively and licks



or chews his paws, abdomen, and perineum. Red spots, baldness (alopecia), scales, and crusts become evident after the first periods of itching and are the consequence of scratching and secondary infections with yeast or bacteria. Areas most commonly affected are the face and paws. Ear infections are quite common, Some animals develop conjunctivitis or respiratory disease. In cases of flea allergies, the caudal part of the dog and the area around the base of the tail are affected. Food hypersensitivities can present with diarrhea and/or vomiting and frequent bowel movements in addition to pruritus and rash.

How to rule out other differential diagnoses?

Due to the fact that **other diseases** can also be responsible for pruritus or skin lesions, your veterinarian will try to rule these out systematically using various clinical or laboratory tests. Depending on the clinical signs and their location, your veterinarian will decide which tests are necessary. Swabs or smears are often taken to



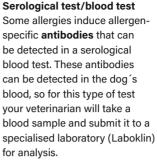
detect bacteria or yeasts.
Skin scrapings are used to identify ectoparasites. Skin biopsies which are submitted to a specialised laboratory can also be collected for further testing. Some diseases can be diagnosed using serological blood tests. If all other differential diagnoses have been ruled out, your veterinarian will take further steps for allergy diagnostics.

Basically, you have to distinguish between two different test procedures:

Intradermal test/skin test

Several different allergens (e.g. pollen or house dust mites) are injected directly into the skin of your dog. The reaction of the skin (wheal) is evaluated and indicative for hypersensitivity to the respective substance.





Not every test is feasible for every case, and your veterinarian will have to decide which test is suitable for your dog.

Special case

Food hypersensitivity

Diagnosis of food hypersensitivity can be challenging, because the gut-associated immune system has many different ways to respond to allergens. The "gold standard" for diagnosis is a rigorous elimination diet. This requires 100 % compliance and discipline of the dog's owner and is especially difficult to perform in households with several dogs, fussy dogs, dogs with free outside access, small children or elderly people who may not always be disciplined enough to stick to the diet.



To diagnose and treat food

the feeding plan which your

for up to 3 months and that

will advise you to either use

a commercially available diet

or prepare the food yourself

disappear during feeding of

the elimination diet, it can be

assumed that one (or some)

previous food was causing the

clinical signs. After a thorough

reappear, an allergy against one

or more ingredients of this food

is confirmed. It is also possible

elimination diet, the original

food has to be fed again

(provocation). If the signs

to detect allergen-specific

against food ingredients in a

helpful, especially if you and

your veterinarian are trying to

blood sample. This serological

antibodies (IgE and IgG)

food allergy test is very

of the ingredients of the

(home cooked diet). If the signs

hypersensitivity it is crucial that

veterinarian has determined for

your animal is closely followed

the dog has no access to other

food sources. Your veterinarian

compose the new diet for your dog that contains all essential substances but no allergens. We recommend feeding those ingredients (one carbohydrate and one protein source) which have shown negative reactions in both antibody classes (0/0). There are also adverse reactions to food that are not based on antibody reaction, thus, blood tests are not suitable to determine these types of food intolerance. In such cases only an elimination diet - based on ingredients that have never been fed before can lead to a correct diagnosis.

